

10. Department of Biochemistry and Cell biology

- 1) Hanada K: Ceramide transport from the endoplasmic reticulum to the *trans* Golgi region at organelle membrane contact sites. *in* "Organelle Contact Sites: From Molecular Mechanism to Diseases" (Eds., Mitsuo Tagaya & Thomas Simmen), Series: Advances in Experimental Medicine and Biology, Springer, 997, 69-81, 2017
- 2) Hanada K, Sugiki T: *In vitro* assay to extract specific lipid types from phospholipid membranes using lipid-transfer proteins: a lesson from the ceramide transport protein CERT, *in* "Lipidomics" (Ed., Paul Wood), Series: Neuromethods, Springer, 125, 81-98, 2017
- 3) Hashimoto Y, Fukasawa M, Kuniyasu H, Yagi K, Kondoh M: Claudin-targeted drug development using anti-claudin monoclonal antibodies to treat hepatitis and cancer. *Ann. N. Y. Acad. Sci.*, 1397, 5-16, 2017
- 4) Hagiwara K, Iwamaru Y, Tabeta N, Yokoyama T, Tobiume M: Evaluation of rapid post-mortem test kits for bovine spongiform encephalopathy (BSE) screening in Japan: Their analytical sensitivity to atypical BSE prions. *Prion*, 11, 113-127, 2017
- 5) Nagata M, Izumi Y, Ishikawa E, Kiyotake R, Doi R, Iwai S, Omahdi Z, Yamaji T, Miyamoto T, Bamba T, Yamasaki S: Intracellular metabolite β -glucosylceramide is an endogenous Mincle ligand possessing immunostimulatory activity. *Proc. Natl. Acad. Sci. U.S.A.*, 114, E3285-E3294, 2017
- 6) Tóth E A, Oszvald Á, Péter M, Balogh G, Osteikoetxea-Molnár A, Bozó T, Szabó-Meleg E, Nyitrai M, Derényi I, Yamaji T, Hanada K, László Vigh, Matkó J: Nanotubes connecting B lymphocytes: High impact of differentiation-dependent lipid composition on their growth and mechanics. *Biochim Biophys Acta*, 1862, 991-1000, 2017
- 7) Takigawa M, Iida M, Nagase S, Suzuki H, Watari A, Tada M, Okada Y, Doi T, Fukasawa M, Yagi K, Kunisawa J, Kondoh M: Creation of a Claudin-2 Binder and Its Tight Junction-Modulating Activity in a Human Intestinal Model. *J. Pharmacol. Exp. Ther.*, 363, 444-451, 2017
- 8) Makino A, Abe M, Ishitsuka R, Murate M, Kishimoto T, Sakai S, Hullin-Matsuda F, Shimada Y, Inaba T, Miyatake H, Tanaka H, Kurahashi A, Pack CG, Kasai RS, Kubo S, Schieber NL, Dohmae N, Tochio N, Hagiwara K, Sasaki Y, Aida Y, Fujimori F, Kigawa T, Nishibori K, Parton RG, Kusumi A, Sako Y, Anderlüh G, Yamashita M, Kobayashi T, Greimel P, Kobayashi T: A novel sphingomyelin /cholesterol domain-specific probe reveals the dynamics of the membrane domains during virus release and in Niemann-Pick type C. *FASEB J.*, 31(4), 1301-1322, 2017
- 9) Sanaki T, Kasai-Yamamoto E, Yoshioka T, Sakai S, Yuyama K, Fujiwara T, Numata Y, Igarashi Y: Direct Involvement of Arachidonic Acid in the Development of Ear Edema via TRPV3. *J. Oleo. Sci.*, 66(6), 591-599, 2017
- 10) Otsuki N, Sakata M, Saito K, Okamoto K, Mori Y, Hanada K, Takeda M: Both sphingomyelin and cholesterol in the host cell membrane are essential for *Rubella virus* entry. *J. Virol.*, 92, e01130-17, 2018 (K.H. and M.T. are co-correspondence. This article was selected as Spotlight of the issue)
- 11) Shimasaki K, Watanabe-Takahash M, Umeda M, Funamoto S, Saito Y, Noguchi N, Kumagai K, Hanada K, Tsukahara F, Maru Y, Shibata N, Naito M, Nishikawa K: Pleckstrin homology domain of p210 BCR-ABL interacts with cardiolipin to regulate its mitochondrial translocation and subsequent mitophagy. *Genes Cells*, 23, 22-34, 2018
- 12) Sakuma C, Sekizuka T, Kuroda M, Kasai F, Saito K, Ikeda M, Yamaji T, Osada N, Hanada K: Novel endogenous simian retroviral integrations in Vero cells: implications for quality control of a human vaccine cell substrate. *Sci. Rep.*, 8, 644, 2018 (C.S. and T.S. are co-first authors. N.O. and K.H. are co-correspondence)
- 13) Ogawa M, Matsuda R, Takada N, Tomokiyo M, Yamamoto S, Shizukusihi S, Yamaji T, Yoshikawa Y, Yoshida M, Tanida I, Koike M, Murai M, Morita H, Takeyama H, Ryo A, Guan JL, Yamamoto M, Inoue JL, Yanagawa T, Fukuda M, Kawabe H, Ohnishi M : Molecular mechanisms of *Streptococcus pneumoniae*-targeted autophagy via pneumolysin, Golgi-resident Rab41, and Nedd4-1 mediated K63-linked ubiquitination. *Cell. Microbiol.*, e12846, 2018
- 14) Shimizu Y, Shirasago Y, Kondoh M, Suzuki T, Wakita T,

Hanada K, Yagi K, Fukasawa M: Monoclonal antibodies against occludin completely prevented hepatitis C virus infection in a mouse model, J. Virol., in press

- 15) Ogawa M, Shirasago Y, Ando S, Shimojima M, Saijo M, Fukasawa M: Caffeic acid, a coffee-related organic acid, inhibits infection by severe fever with thrombocytopenia syndrome virus in vitro. J. Infect. Chemother., in press